KVR533D2E4/1G

1GB 128M x 72-Bit DDR2-533
CL4 ECC 240-Pin DIMM

Preliminary

DESCRIPTION:

This document describes ValueRAM's 128M x 72-bit (1GB) DDR2-533 CL4 SDRAM (**S**ynchronous **DRAM**) ECC memory module. The components on this module include eighteen 64M x 8-bit (16M x 8-bit x 4 Bank) DDR2-533 SDRAM in FBGA packages. This 240-pin DIMM uses gold contact fingers and requires +1.8V. The electrical and mechanical specifications are as follows:

FEATURES:

☑ Clock Cycle Time (tCK) CL=4	3.75ns (min.) / 8ns (max.)
☑ Row Cycle Time (tRC)	55ns (min.)
☑ Refresh to Active/Refresh Command Time (tRFC)	127.5ns
☑ Row Active Time (tRAS)	40ns (min.) / 70,000ns (max.)
☑ Single Power Supply of	+1.8V (+/- .1V)
☑ Power (IDD0)	2.754 W (operating)
☑ UL Rating	94 V - 0

Note: The module defined in this data sheet is one of several configurations available under this part number. While all configurations are compatible, the DRAM combination and/or the module height may vary from what is described here. However, in no configuration will the module height exceed 1.250" (31.75mm).

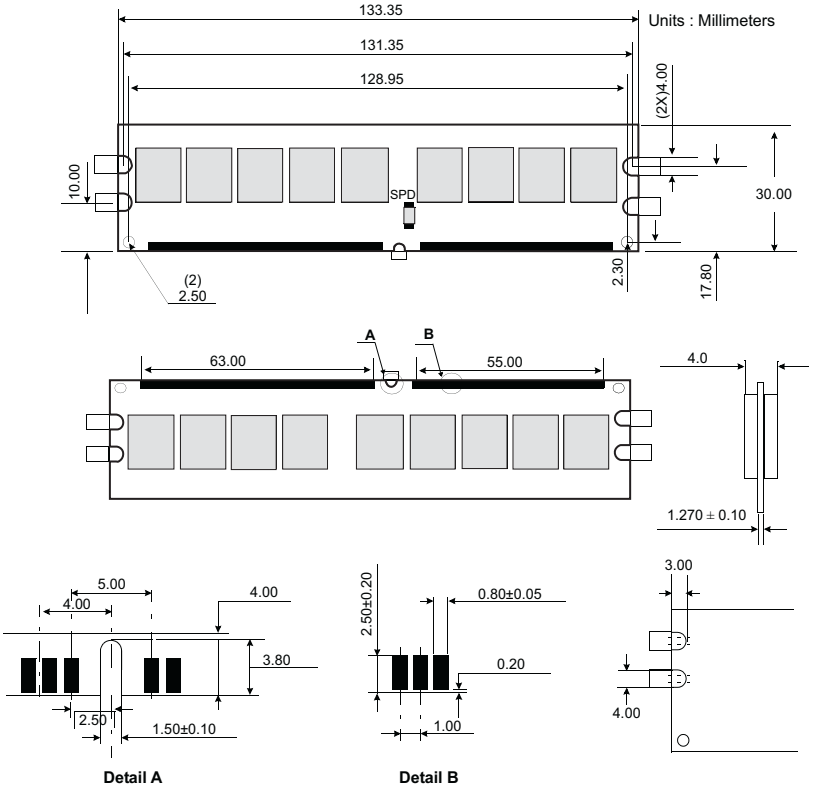

Figure 1: KVR533D2E4/1G 240-Pin DIMM